

Prime Technology  
P.O. Box 185  
344 Twin Lakes Road  
North Branford, CT 06471



## INTERNATIONAL INSTRUMENTS, A DIVISION OF PRIME TECHNOLOGY, LLC. INTRODUCES THE RE-DESIGNED 0100 RUGGEDIZED MILITARY PANEL METERS

*Meters can now be mounted directly into magnetized material for unparalleled accuracy, ease of use, and installation*

Prime Technology, LLC of North Branford, CT introduces the re-designed 0100 series ruggedized military panel meter, designed specifically for high accuracy while under extreme conditions. For over 40 years, International Instruments has been in the business of producing instruments of an accuracy that permits critical monitoring while withstanding varying degrees of shock, acceleration, altitude, vibration and other environmental extremes. These advanced meters are already installed aboard many surface ships and most submarines in the U.S. Naval fleet, without any related failures reported.

The 0100 now has the **distinct capability** of being mounted directly into a panel made of magnetized material, such as steel, without any associated metering errors. Prime Technology, foreseeing a need in the market, re-designed the 0100 meter with a stainless steel casing rather than the traditionally used anodized aluminum. This housing material renders the meter insensitive to a steel panel, thus maintaining the meter's critical accuracy.

The model 0100 was, and still is, specifically engineered for commercial, industrial, military, and OEM applications. The meters are self-contained, individually calibrated, and are delivered ready for installation and immediate use in a wide range of demanding applications. All scales are comprised of stainless steel with a white background for high visibility. Scale arc is approximately 90 degrees and of exceptional length (.75 inches) for a miniature instrument. The meter is approximately 1 inch round and weighs a mere 2 ounces. Pointers are black lance-type although red pointers are optional and military models come in a range of alternate colors as well. The zero position is at left, with right or center positions optional. All meters are balanced for vertical use, but non-vertical panels can be accommodated by special request as well.

The 0100's accuracy is 3% full scale for DC and its repeatability and overload are in accordance with MIL-M-10304. Shock, vibration and temperature specifications are also in accordance with MIL-M-10304. The 0100's max response time is 2 seconds and its overshoot is 20%. The

miniaturized D'Arsonval-type movement combines small size and lightweight features with high sensitivity. Its ruggedized construction provides shock-mounted bearings, Alnico 5 magnets and sapphire jewels built into a tough, magnetically inert stainless-steel case.

Prime Products • Prime Sensing • International Instruments  
General Resistance • Shurite • Precision Timer

Telephone (203) 481-5721 • Facsimile (203) 481-8937 • [sales@primetechnology.com](mailto:sales@primetechnology.com)

[www.primetechnology.com](http://www.primetechnology.com)

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Prime Technology, LLC, a privately-held company headquartered in North Branford, CT is a proprietary manufacturer of precision instruments and systems, serving the commercial, nuclear, and military marketplaces. The company's five divisions manufacture products ranging from intricate electromechanical assemblies to state-of-the-art electronics. Prime Technology is a vertical manufacturer with on-site machine shop, tool room, and molding facilities. These capabilities enable it to produce to stringent military specifications. The company maintains complete control of all critical processes required to produce to nuclear instrument and Mil-Spec.

For more information please contact:

Celia Bozsum  
Marketing Manager  
Prime Technology, LLC  
344 Twin Lakes Rd  
North Branford, CT 06471  
Phone: (203) 481-5721 x377  
Fax: (203) 481-8937  
Email: [cbozsum@primetechnology.com](mailto:cbozsum@primetechnology.com)  
Website: [www.primetechnology.com](http://www.primetechnology.com)